

Project Specific Notes

- Garbage disposal units are prohibited.
- 2. No water softener shall discharge to the septic system.
- 3. The proposed septic system is not located within a Zone II Approved Wellhead Protection Area.
- 4. All known wells located within 200 feet of the proposed system have been shown on the locus
- 5. This property is located within the "Miscoe, Warren and Whitehall Watersheds ACEC.

General Notes

- 1. All elevations refer to NAVD 88 datum. See plan for benchmark locations.
- 2. All construction shall conform to 310 CMR 15.00, Title 5.
- 3. This plan does not warrant or imply any subsurface soil conditions other than those observed at the immediate test pit locations. If unsuitable material is encountered, all construction shall cease, and the design engineer shall be contacted immediately.
- 4. All tanks and chambers shall be set level and true to grade on a mechanically compacted stable base of 6" of 3/4" stone.
- 5. Areas disturbed during construction shall be stabilized to minimize erosion and control sedimentation. The area over the system shall be graded to a minimum of 2% slope to provide positive surface drainage. Place 4" Loam and seed all disturbed areas of the project not otherwise improved.
- 6. This plan shall not be used for the reproduction of property lines, nor shall it be used as a mortgage plot plan or title survey. Conformance to local bylaws shall be determined by the owner prior to construction.
- 7. For proper performance, the septic tank should be pumped on an as needed basis, but in no event shall the septic tank be pumped less than every three years.
- 8. Any alterations must be reported to the design engineer prior to proceeding with construction.
- 9. The system must be inspected by the Board of Health or its agent and be certified by the design engineer.
- 10. Conservation Commission approval may be required.
- 11. See 310 CMR 15.255 for fill specifications. See 310 CMR 15.247 for aggregate specifications.
- 12. All piping shall be marked with magnetic marking tape
- 13. All trenches for utilities to be backfilled and compacted with granular materials free of rocks larger than 2".
- 14. All underground utility locations shown are based on field evidence and records provided to Land Planning, Inc.. These locations should be considered approximate. Other utilities may exist which are not evident or for which record information was not found. The contractor must contact all utility companies and "Dig Safe" before excavation begins. We assume no responsibility for damages incurred as a result of utilities omitted or inaccurately shown.
- 15. It is the responsibility of the contractor to review all of the drawings and specifications associated with this project work and project scope prior to the initiation of construction. Should the contractor find a conflict with the documents, relative to the specifications or applicable codes, it is the contractor's responsibility to notify the project engineer of record in writing prior to the start of construction. Failure by the contractor to notify the project engineer shall constitute acceptance of full responsibility by the contractor to complete the scope of work as defined by the drawings and in full conformance with local regulations and
- 16. Contractor is responsible for all excavation to be performed in accordance with current O.S.H.A. standards, as well as additional provisions to assure stability of contiguous structures, as field conditions dictate.

SOIL TEST DATA

DEEP HOLE OBSERVATION LOGS

PERFORMED BY: NORMAN HILL | WITNESS BY: J VANARSDALEN | DATE: 5/13/2

SURF. ELEV. = 376.3

7.5YR 6/6

SURF. ELEV. = 375.1

(MUNSELL)

7.5YR 3/2

7.5YR 6/6

2.5Y 7/1

7.5YR 3/2

7.5YR 6/6

2.5Y 7/1

(MUNSELL)

7.5YR 3/2

7.5YR 6/6

PERC TEST DATA

< 2 MPI

PERFORMED BY: NORMAN HILL WITNESS BY: NASHOBA DATE: 4/6/21

SURF. ELEV. = 375.6

SURF. ELEV. = 374.2

MOTTLING

MOTTLES @ 96"

MOTTLING

MOTTLES @ 96"

MOTTLING

2.5Y 7/1 | MOTTLES @ 96"

2.5Y 7/1 | MOTTLES @ 96"

DEEP HOLE # DH-1

DEEP HOLE # DH-2

(INCHES) HORIZON

DEEP HOLE # DH-3

DEEP HOLE # DH-4

24-96

8-24

8-24

24-96

8-24

24-96

24-96

DEPTH SOIL SOIL TEXTURE SOIL COLOR (MUNSELL)

DEPTH | SOIL | SOIL TEXTURE | SOIL COLOR

DEPTH SOIL SOIL TEXTURE SOIL COLOR (INCHES) HORIZON (USDA) (MUNSELL)

S. LOAM

L. SAND

(USDA)

S. LOAM

S. LOAM

L. SAND

S. LOAM

L. SAND

S. LOAM

S. LOAM

L. SAND

DEPTH | SOIL | SOIL TEXTURE | SOIL COLOR | (USDA)

DEPTH OF PERC:

PERC RATE:

G.W. ELEV. =368.3

G.W. ELEV. =367.

G.W. ELEV. =366.2

G.W. ELEV. =367.6

24"

< 2 MPI

OTHER

On-Site Sewage Disposal System

Located At Lot 4

183 Upton Street

Assessors Parcel 86-0-11 Grafton, MA Owned By

Roger Lee Robinson

115 Old Upton Rd Grafton, MA

> 9/15/2021 Scale: As Noted

Legend		
© Catch Basin		
© Drain Manhole		
— 100 Proposed Contour		
100.0 x Proposed Spot Grade		
100 Existing Contour		
0	Utility Pole	
₩ Water Gate Valve		
💢 Hydrant		
Soil Test Pit		
₩ Well		
00000	STONE WALL	

TREE LINE

Soil Evaluator Note:

uuu

I certify that I am currently approved by the Department of Environmental Protection to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise, and experience described in 310 cmr 15.018(2).



Norman G. Hill, PE #31887					
REVISIONS					
No.	Date	Design	Checked		
1	10/19/21	MHG	NGH		
2	10/25/21	MHG	NGH		
3	11/16/21	MHG	NGH		
4					
5					

		L.	
6			
Fie	eld By:		
De	esigned By:	MHG	9/21
Dr	awn By:	MHG	9/21
Cl	necked By:	NGH	9/21



Land Planning, Inc.

Civil Engineers • Land Surveyors **Environmental Consultants**

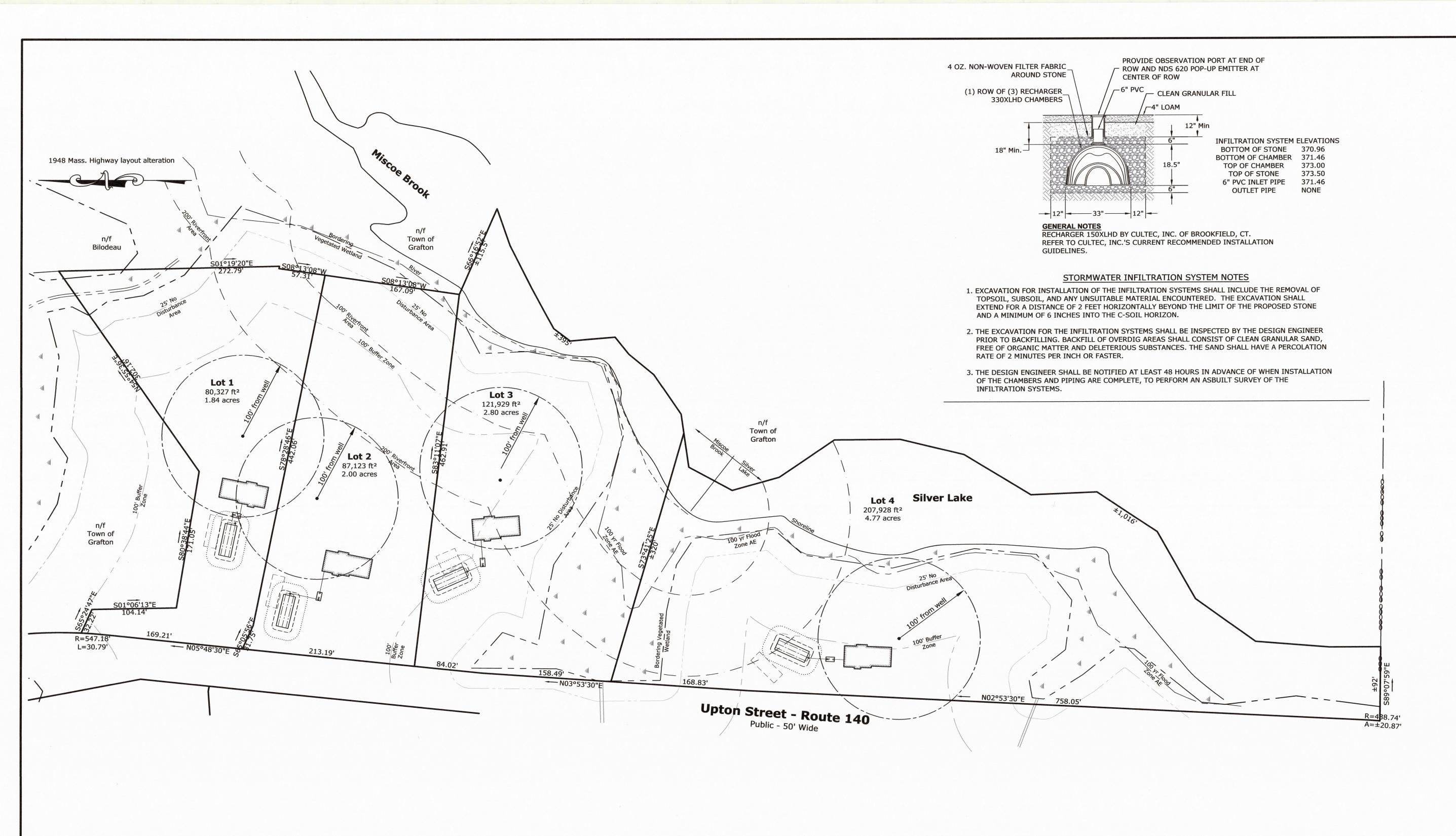
> Bellingham 167 Hartford Ave. Bellingham, MA 02019 508-966-4130

North Grafton 214 Worcester St. N. Grafton, MA 01536 508-839-9526

Hanson 1115 Main Street Hanson, MA 02341 781-294-4144

www.landplanninginc.com

9/15/2021 1 of 2 G9541



Erosion & Sediment Control Notes

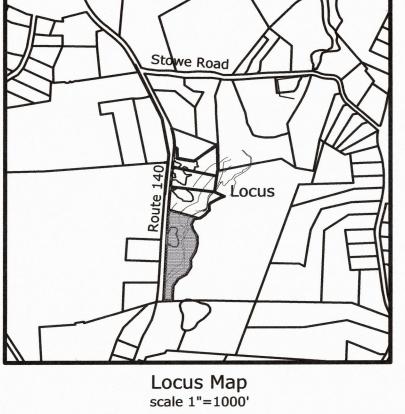
- 1. Sediment barriers are to be installed where shown on this plan. The contractor and the owner are responsible for the proper maintenance of the sediment barriers and to identify and correct all sources of erosion. Extra sediment barrier materials are to be stored on site in order to quickly repair erosion prone areas. Periodic maintenance of the erosion control structures is required in order to insure the proper protection of the resource areas.
- 2. Rough grading and pavement construction are to be confined to areas as shown on these plans. Any stockpiled material that is subject to erosion shall be protected at its base on the down-slope side with a sediment barrier.
- B. Temporary stabilization of disturbed areas is required to limit erosion toward abutting properties and public ways. All graded slopes are to be stabilized on a daily basis with special care taken to avoid routing rainfall through gullies toward the resource areas. Areas of erosion are to be repaired on a daily basis.
- I. The contractor is to use proper judgment relative to construction practices during adverse weather conditions or periods of high groundwater. No work is to be performed near the wetland areas during periods of heavy rainfall. Inspection is required after more than 1/2" of rainfall in 24 hours.
- 5. All graded areas are to be loamed and seeded as soon as possible in order to insure the rapid stabilization of the erosion prone areas. A grass seed mixture of 20% Red Top, 60% Chewings Fescue and 20% Kentucky Bluegrass is recommended. "Hydroseed" with high fiber content.
- 6. The Sediment barriers shall remain in place until all upgradient areas have been stabilized.
- '. During periods of heavy rainfall, it will be expected to experience erosion of the unstabilized slopes. Immediate attention to the maintenance of these eroded areas will further insure the successful stabilization of the exposed slopes while limiting the impacts to nearby resource areas.

Zoning

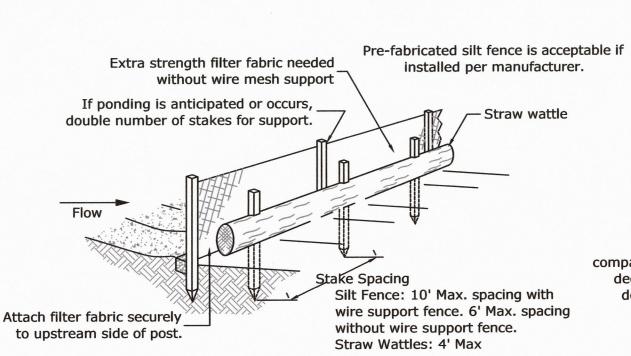
Zoned: Agricultural - single family Area: 80,000 s.f. frontage: 200 ft. min. front yard: 30 ft. min. side yard: 15 ft. min. rear yard: 15 ft. min. coverage: 30% max. height: 35 ft. max

Locus References

deed book 38402 page 283 1918 Mass Highway Layout 1948 Mass Highway Alteration



from MassGIS Oliver layers approximate



Support mesh \ _ Steel or wood post Filter fabric — Flow Trench with compacted backfill. 2" deep at wattles, 6" deep at silt fence.

1. Silt fence shall be placed on slope contours to maximize ponding efficiency. 2. Inspect and repair fence after each storm event and remove sediment when necessary. 9" Maximum recommended storage height.

2. Removed sediment shall be deposited to an area that will not contribute sediment off-site and can be permanently stabilized. 4. Do not place silt fence in streams or concentrated flow conditions.

SEDIMENT BARRIER DETAIL (not to scale)

On-Site Sewage Disposal System

Lot Plan & Details Located At

Lot 4 **183 Upton Street**

Assessors Parcel 86-0-11 Grafton, MA

Roger Lee Robinson

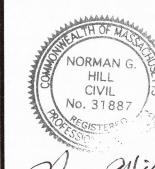
Owned By

115 Old Upton Rd Grafton, MA

> 9/15/2021 Scale: 1" = 60'

Legend Catch Basin Drain Manhole Proposed Contour Proposed Spot Grade 100.0 x **Existing Contour Utility Pole** Water Gate Valve DH-1 Hydrant Soil Test Pit STONE WALL 00000

TREE LINE



uuu

orn Hill R Date: 11-11.21

Norman G. Hill, PE #31887				
	REVISIONS			
No.	Date	Design	Checked	
1	10/19/21	MHG	NGH	
2	10/25/21	MHG	NGH	
3	11/16/21	MHG	NGH	
4				
5				

Field By:		
Designed By:		
Drawn By:	MHG	9/21
Checked By:	NGH	9/21
		Carlo Car



Land Planning, Inc.

Civil Engineers • Land Surveyors **Environmental Consultants**

> Bellingham 167 Hartford Ave. Bellingham, MA 02019 508-966-4130

North Grafton 214 Worcester St. N. Grafton, MA 01536 508-839-9526

Hanson 1115 Main Street Hanson, MA 02341 781-294-4144

www.landplanninginc.com

Sept. 15, 2021 G9541

1"=60'

Sheet No.